

LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A coupling system between high-voltage electrical equipment including a connector that inserts in female connectors of the high voltage equipment the connector comprising:

an insulating shell inside which are housed conducting elements, whose external surface is partially covered by a conductive layer and

a mechanical protection device, ~~connected to the connector being an independent part to the rest of the elements of the coupling system~~ and disposed surrounding the conductive layer and in contact with said conductive layer.

2. (Previously Presented) The coupling system between high-voltage electrical equipment according to claim 1, wherein that the protection device consists of a conducting ring connected to earth.

3. (Previously Presented) The coupling system between high-voltage electrical equipment according to claim 2, wherein that the conducting ring connected to earth is metallic.

4. (Currently Amended) The coupling system between high-voltage electrical equipment according to claim 1, wherein the protection device includes an inductive current sensor.

5. (Previously Presented) The coupling system between high-voltage electrical equipment according to claim 4, wherein that the current sensor consists of a Rogowski coil.

6. (Previously Presented) The coupling system between high-voltage electrical equipment according to claim 4, wherein that the current sensor consists of a winding about a magnetic core.

7. (Previously Presented) The coupling system between high-voltage electrical equipment according to the claim 1, wherein in the protection device includes a capacitive voltage sensor.

8. (Currently Amended) The coupling system between high-voltage electrical equipment according to claim 1, ~~further comprising a second connector and~~

wherein the protection device encompasses all the connectors of the ~~phases of the phases of the~~ coupling system between high-voltage equipment.

9. (Previously Presented) The coupling system between high-voltage electrical equipment according to claim 8, wherein the protection device consists of a conducting ring connected to earth.

10. (Previously Presented) The coupling system between high-voltage electrical equipment according to claim 9, wherein that the conducting ring connected to earth is metallic.

11. (Currently Amended) The coupling system between high-voltage electrical equipment according to claim 8, further comprising a current sensor that externally encompasses all phases of the coupling system between high voltage equipment.

12. (Previously Presented) The coupling system between high-voltage electrical equipment according to claim 11, further comprising a current sensor for each phase.

13. (Currently Amended) The coupling system between high-voltage electrical equipment according to claims 8, ~~including wherein the protection device incorporates~~ voltage detection for each phase of a main circuit.